

Daily Epid. Report for SARS-Cov-2

Report No. 439

Date Issued: 16th June 2021

1. PURPOSE

The report provides a descriptive analysis of SARS-Cov-2 related cases and deaths, and hospitalizations in the Eastern Cape Province, as of 16th June 2021.

2. HIGHLIGHTS

2.1. New cases, active cases, and recoveries

- In the past 24 hours, **495** new cases and **9** deaths were reported. Seventy percent (69.9%) of the new cases were from NM Metro (346 cases); Sarah Baartman (47 cases, 9.5%); BC Metro (39 cases, 7.9%); Joe Gqabi (20 cases, 4%); Chris Hani (19 cases, 3.8%); Alfred Nzo (14 cases, 2.8%); OR Tambo (6 cases, 1.2%) and Amathole (4 cases, 0.8%).
- Sixty-nine percent (69.1%) of the active cases were from NM Metro (1525 cases) followed by BC Metro (236 cases, 10.7%); Sarah Baartman (197 cases, 8.9%); Chris Hani (87 cases, 3.9%), Joe Gqabi (83 cases, 3.8%), Amathole (32 cases, 1.4%), Alfred Nzo (23 cases, 1%) and OR Tambo (20 cases, 0.9%).
- The number of recoveries that were reported from the beginning of the pandemic was 187,089, i.e. a 93,7% recovery rate.

2.2. SARS-Cov-2 related deaths

- Nine (9) deaths were reported and 3 of them had occurred within the past 48 hours.

2.3. Hospitalizations and outcomes

- The cumulative number of hospitalizations was 32,173, i.e. 22,337 (69.4%) in public and 9,836 (30.6%) in private. Sixty-five percent (64.8%), i.e. 20,846 of hospitalized patients were discharged alive and 13,494 (64.7%) occurred in public sector.
- Thirty percent (29.6%) of hospitalized cases, i.e., 9,515 demised and 7,208 (75.8%) occurred in public sector facilities.

- Joe Gqabi has the highest case fatality rate (45%) among the hospitalized, followed by Amathole (37.6%), Chris Hani (34.8%) and OR Tambo (34.8%). BC Metro discharged more than 70% of the hospitalized and the lowest discharge rate seen in Joe Gqabi (50.1%).
- Of the 211 currently admitted, 137 (64.9%) in private and 74 (35.1%) in public sector. About 168 cases (79.6%) were admitted in the General Ward, i.e. 95 in private and 73 in public sector. Thirty-five (35) were in ICU in private sector; 8 cases in High Care (1 in public & 7 in private); 36 cases on oxygen (28 in public & 8 in private) and 22 cases were on ventilation (14 in public and 8 in private sector). Twelve (12) hospitalizations occurred in the past day from Chris Hani (1), Joe Gqabi (1), NM Metro (6) and Sarah Baartman (4).

2.4 Healthcare workers

- The number of HCWs who tested SARS-Cov-2 positive was 12,077 and 307 persons demised. Most of the health workers who tested positive for SARS-Cov-2 were nurses, followed by doctors and clinical associates. The number of healthcare workers who tested positive for SARS-Cov-2 was from NM Metro, followed by BC Metro.

2.5 Conclusion

The highest burden of disease was observed in NM Metro and Sarah Baartman (i.e., more than 20 cases per 100,000 populations) and are classified as hotspots. BC Metro also reported more than 20 cases per 100,000 populations.

Nine (9) local municipalities or sub-districts have high transmission rate of the SARS-Cov-2 and need more support to reduce possible transmission. This includes East London (BC Metro), Inxuba Yethemba LM (Chris Hani), Walter Sisulu LM (Joe Gqabi), Sub-District A, B & C (NM Metro), and Kouga LM, Makana, and Ndlambe LM (Sarah Baartman).

There is a need to ensure that non-pharmaceutical preventive measures are implemented, increase case detection, enhance contact tracing, and case management, and educate the public about the preventive measures.

3. SARS-Cov-2 CASES & DEATHS

3.1. Summary of all cases and deaths

In the past 24 hours, **495** new cases and **9** deaths which occurred within the past 48 hours were reported. Cumulatively, **201,014** cases and **11,717** deaths were reported.

	No. of cases	Late Report	New Cases	Total	%	Deaths	New Deaths		Total	CFR (%)
							*Newly Reported	**Newly occurred		
Male	79692	1	236	79929	39,8	4945	3	2	4950	6,2
Female	120806	1	259	121066	60,2	6763	3	1	6767	5,6
Unknown	19			19	0,0	0			0	0,0
Total	200517	2	495	201014	100,0	11708	6	3	11717	5,8

* Deaths that occurred more than 48 hours ago ** Deaths that occurred within the last 48 hours of reporting

Six percent (5.8%) of the cases demised, and 6.2% were males and 5.6% were females.

District	Cases	Late Report	New Cases	Total Cases	Recoveries	Deaths	New Deaths		Total Deaths	CFR (%)	Recovery Rate	Active Cases
							*Newly Reported	**Newly occurred				
Alfred Nzo	8078		14	8092	7564	505	0	0	505	6,2	93,8	23
Amathole	19458		4	19462	18318	1111	1	0	1112	5,7	94,3	32
BC Metro	39497		39	39536	36931	2368	0	1	2369	6	93,8	236
Chris Hani	19934		19	19953	18249	1616	0	1	1617	8,1	91,6	87
Joe Gqabi	7849		20	7869	7280	506	0	0	506	6,5	93,1	83
NM Metro	58977		346	59323	54427	3366	5	0	3371	5,8	93,2	1525
OR Tambo	22531	2	6	22539	21136	1383	0	0	1383	6,1	93,9	20
Sarah Baartman	22383		47	22430	21379	853	0	1	854	3,8	95,7	197
Imported	683		0	683	679	0	0	0	0	0	100	4
Unspecified	1127		0	1127	1126	0	0	0	0	0	100	1
E. Cape	200517	2	495	201014	187089	11708	6	3	11717	5,9	93,7	2208

* Deaths that occurred more than 48 hours ** Deaths that occurred within the past 48 hours of reporting

Seventy percent (69.9%) of the new cases were from NM Metro (346 cases); Sarah Baartman (47 cases, 9.5%); BC Metro (39 cases, 7.9%); Joe Gqabi (20 cases, 4%); Chris Hani (19 cases, 3.8%); Alfred Nzo (14 cases, 2.8%); OR Tambo (6 cases, 1.2%) and Amathole (4 cases, 0.8%).

Sixty-nine percent (69.1%) of the active cases were from NM Metro (1525 cases) followed by BC Metro (236 cases, 10.7%); Sarah Baartman (197 cases, 8.9%); Chris Hani (87 cases, 3.9%), Joe Gqabi (83 cases, 3.8%), Amathole (32 cases, 1.4%), Alfred Nzo (23 cases, 1%) and OR Tambo (20 cases, 0.9%).

The number of recoveries that were reported from the beginning of the pandemic was 187,089, i.e., a 93,7% recovery rate.

3.2. Newly diagnosed cases

The number of new cases has increased by 40.7% from 172 to 242 in the past 7 days.

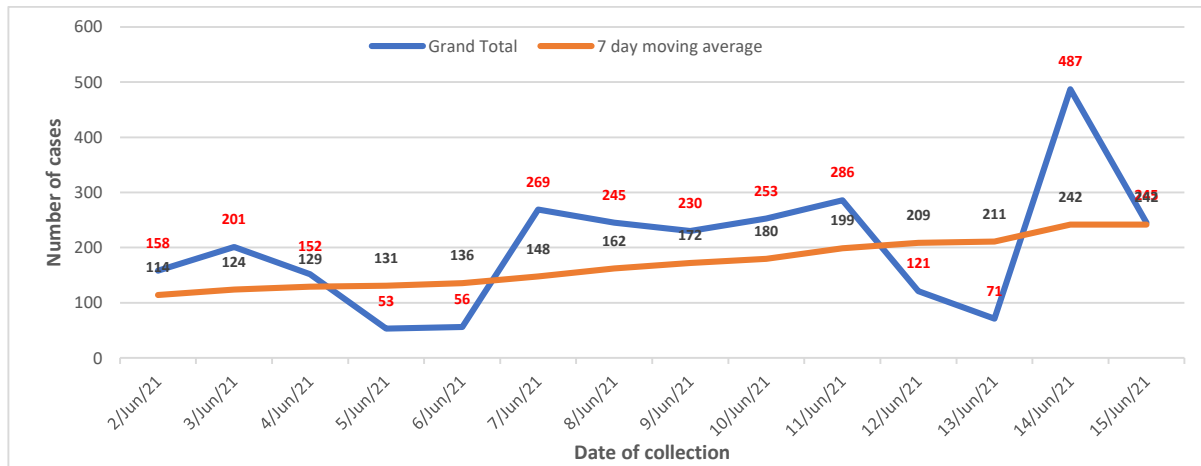


Fig. 1. Daily SARS-Cov-2 cases & 7-day moving average by date of collection, as of 16th June 2021

NM Metro reported the highest number of newly diagnosed cases, followed by Sarah Baartman, BC Metro and Joe Gqabi.

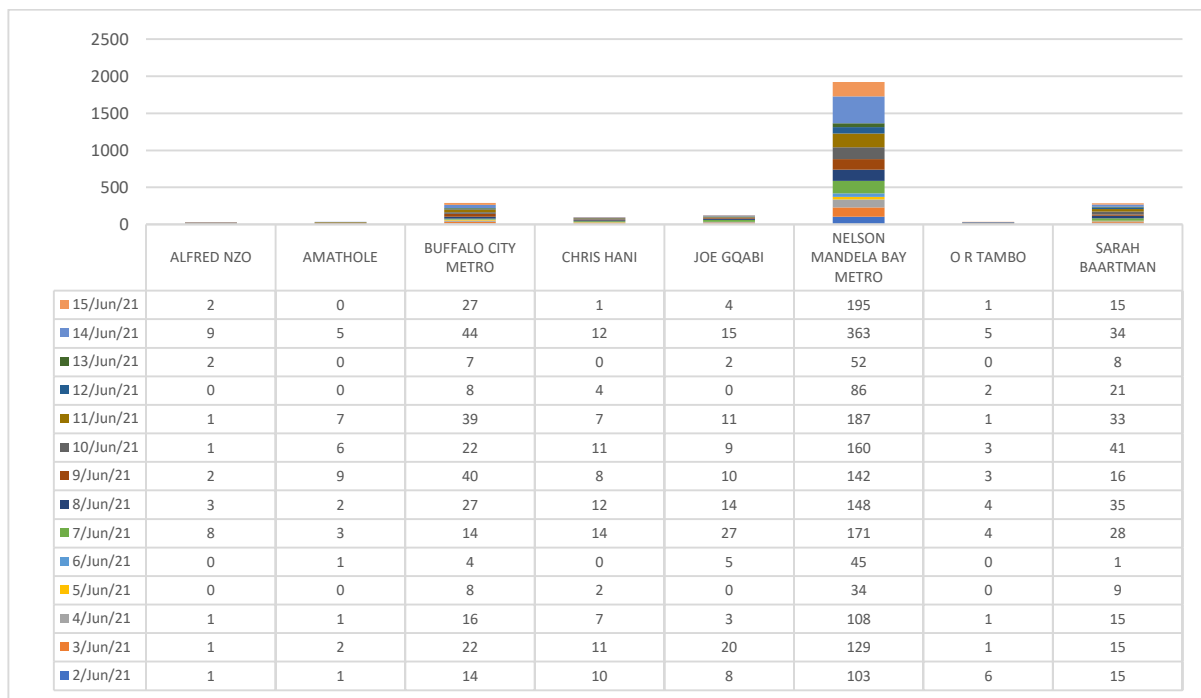


Fig. 2. Daily SARS-Cov-2 cases by district and date of collection, as of 16th June 2021

There is a need to improve case detection (including increased testing) and contact tracing and monitoring. Alfred Nzo, Amathole and OR Tambo still report a low number of newly diagnosed cases but are gradually increasing.

4. SARS-Cov-2 LAB TESTS & RESULTS

4.1. Test Results by Laboratory

A total of 11,550 tests were reported from the 06th to the 12th of June and private sector accounted for 56.1% of the tests. A cumulative number of over 1 million tests done, 60.1% were done in public and 39.9% in the private sector.

	Private	Public	Total	Percentage (%)	Tests 13-14 June	Tests 06-12 June
Alfred Nzo	4556	29659	34 215	3,4	56	127
Amathole	9821	74591	84 412	8,3	330	311
BC Metro	62909	103269	166 178	16,4	450	701
Chris Hani	13141	62675	75 816	7,5	504	590
Joe Gqabi	1281	29803	31 084	3,1	199	297
NMB Metro	93335	150435	243 770	24,0	1499	2143
OR Tambo	30253	69670	99 923	9,8	124	216
Sarah Baartman	18788	90113	108 901	10,7	645	686
Unclassified	171129	0	171 129	16,9	4151	6479
Eastern Cape	405213	610215	1 015 428	100	7958	11550

NM Metro accounts for 24% of the tests, followed by BC Metro (16.4%), Sarah Baartman (10.7%) and OR Tambo (9.8%).

4.2. Antigen Testing

Antigen Test Method was used to test 137,614 specimens with a 6.9% positivity rate.

	Negative	Positive	Total	Percentage (%)	Positivity Rate (%)
A Nzo	15527	939	16466	12,0	5,7
Amathole	4737	613	5350	3,9	11,5
BC Metro	13147	1630	14777	10,7	11,0
Chris Hani	12109	1190	13299	9,7	8,9
Joe Gqabi	3940	485	4425	3,2	11,0
NM Metro	44806	2948	47754	34,7	6,2
OR Tambo	26181	1366	27547	20,0	5,0
Sarah Baartman	7645	351	7996	5,8	4,4
Total	128092	9522	137614	100,0	6,9

NM Metro accounted for 34.7% of the tests, followed by OR Tambo (20%), Alfred Nzo (12%) and BC Metro (10.7%). Three (3) districts reported more than 10% positivity rate among those tested using antigen testing, i.e., Amathole, BC Metro, and Joe Gqabi. The lowest positivity rate was observed in Sarah Baartman.

4.3. Tests by age group and sex

In the last 31 days, 22,854 specimens were tested for SARS-Cov-2 in public sector laboratories. Fifty-seven percent (57.4%) of the tests were among the 20 to 59 year’s age group. Forty-one percent (40.6%) of the tests were among the younger and elderly population.

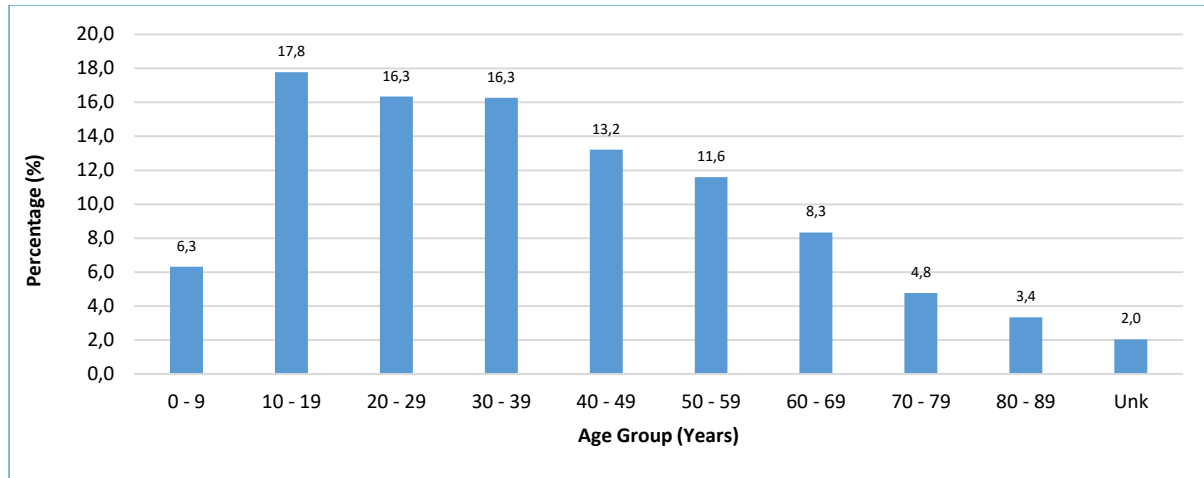


Fig. 3. The number of SARS-Cov-2 tests by age group in the last 31 days, as of 15th June 2021

Only 2% of the tests did not have information on the age of the person who was tested for SARS-Cov-2.

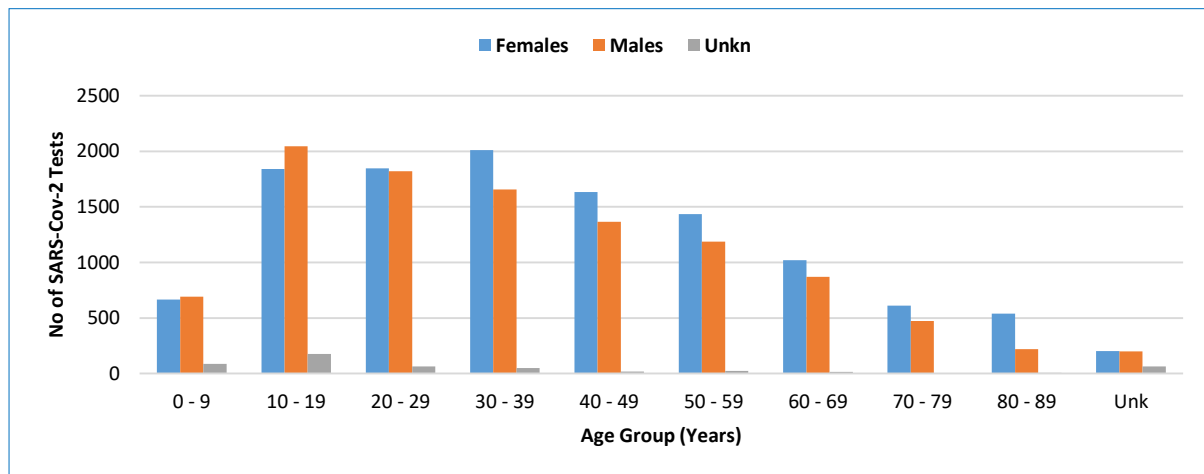


Fig. 4. No. of SARS-Cov-2 public sector tests by age group and gender, as of 15th June 2021

More than half of all the tests (51.7%), which were done in the last 31 days, were predominantly among the female population. Only 46.1% of the tests were among the male population and 2.2% with unknown gender. There were those individuals who were tested for SARS-Cov-2 but did not have information on the age or date of birth.

4.4. Turnaround Time

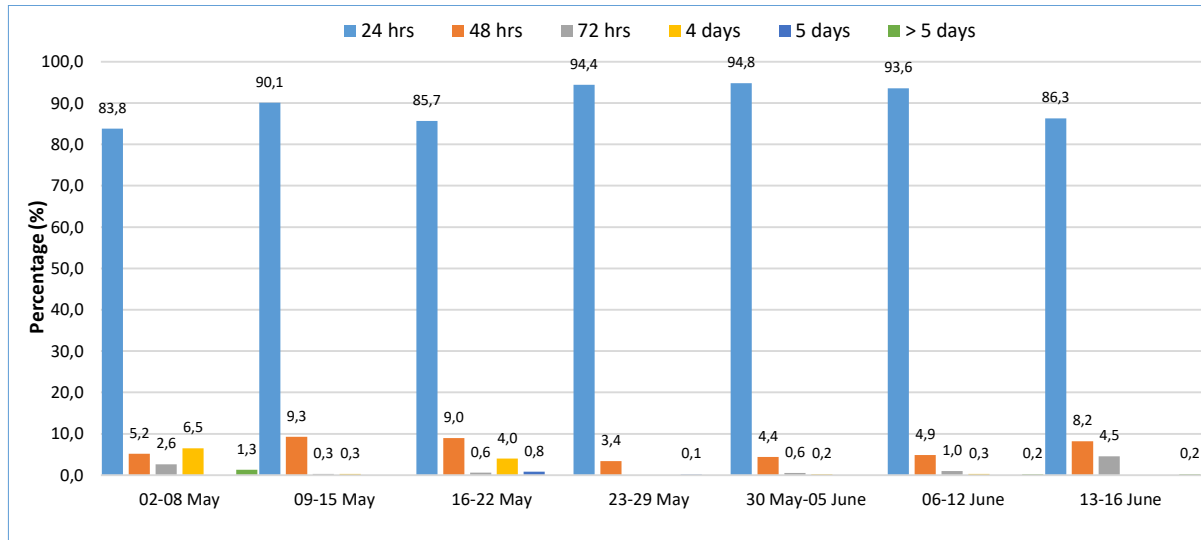


Fig. 5. Turnaround time for SARS-Cov-2 positive results by week as of 16th June 2021

Results that were available within 24 hours has decreased by 15.4% from 93.6% during the previous week to 86.3% in the current week. Results that were available within 48 hours decreased by 4.1% from 98.5% in the previous week, to 94.5% in the current week.

4.5. The 7-day moving average of SARS-Cov-2 tests & positivity rate

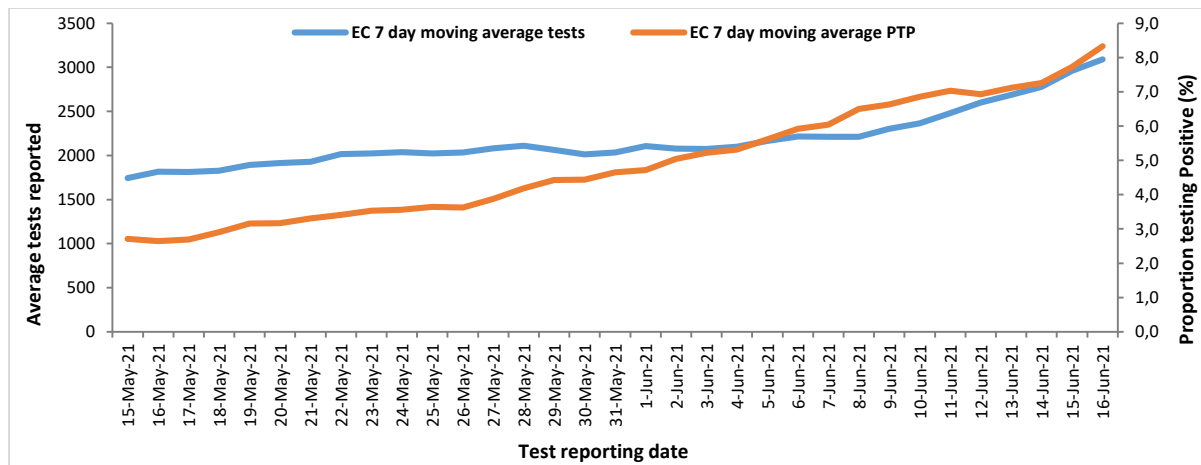


Fig. 6. 7-day moving average for SARS-Cov-2 tests & positivity rate, as of 16th June 2021

In the past 7 days, there is a 30.7% increase in the number of SARS-Cov-2 tests from 2,366 on the 10th to 3,092 on the 16th of June 2021. The positivity rate has increased by 20.3% from 6.9% to 8.3% during the same period.

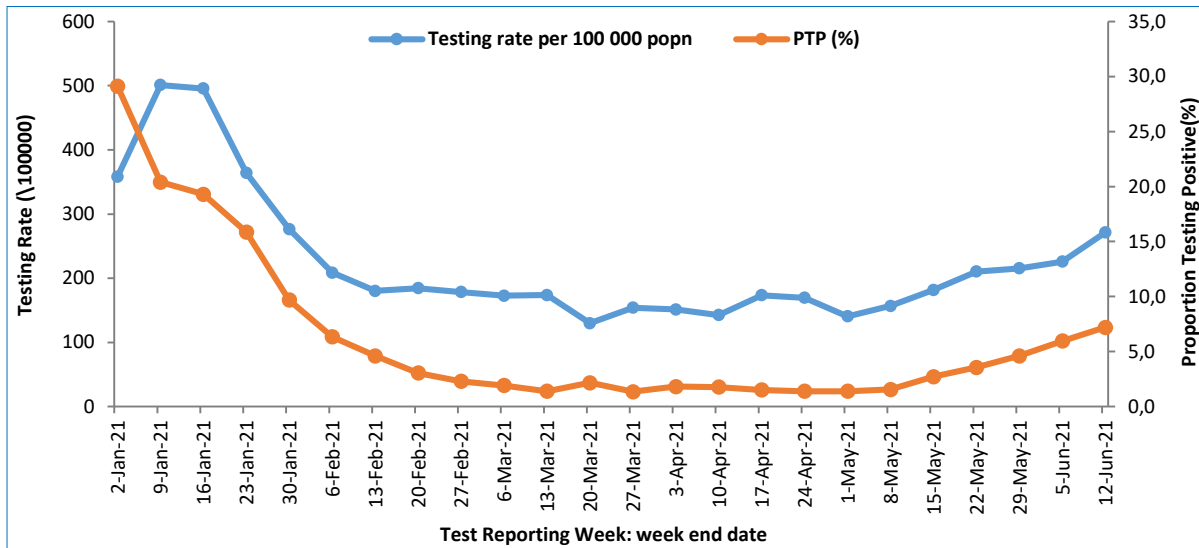


Fig. 7. Testing Rate for SARS-Cov-2 by week for past 23 weeks, as of 12th June 2021

The testing rate for SARS-Cov-2 has increased by 19,9% from 226 tests per 100,000 on the 05th June to 271 tests per 100,000 on the 12th June. The testing rate has increased to more than 200 tests per 100,000 per week.

5. ACTIVE CASES, INCIDENCE & POSITIVITY RATE

5.1. Active SARS-Cov-2 Cases

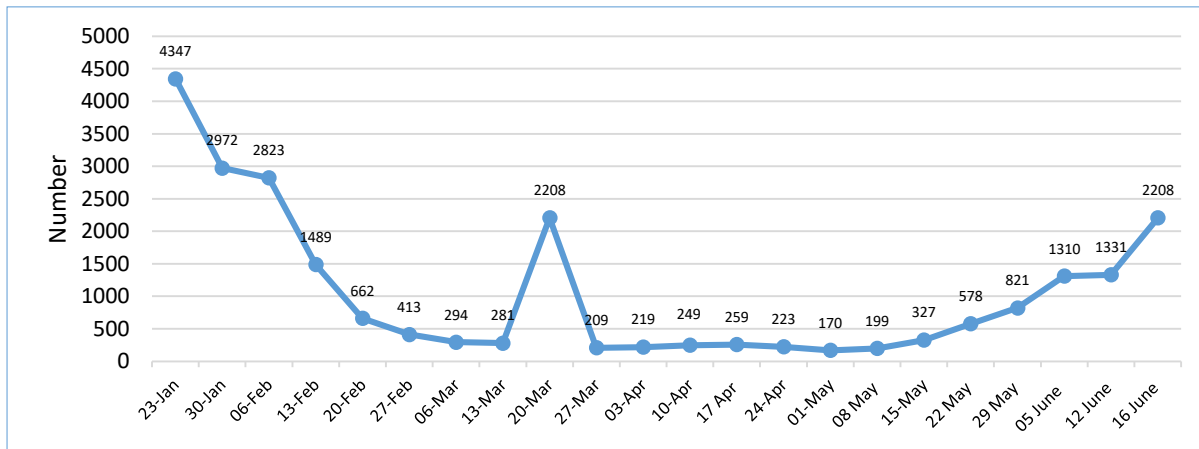


Fig. 8. Number of active SARS-Cov-2 cases by week, as of 16th June 2021

The number of active cases has increased by 65.9% from 1,331 on the 12th to 2,208 on the 16th of June. There is a need to encourage communities to use non-pharmaceutical preventive measures, ensure eligible populations are vaccinated, and reinforcement of the regulations.

Figure 9 below provides the number of active cases by districts and the date of collection.

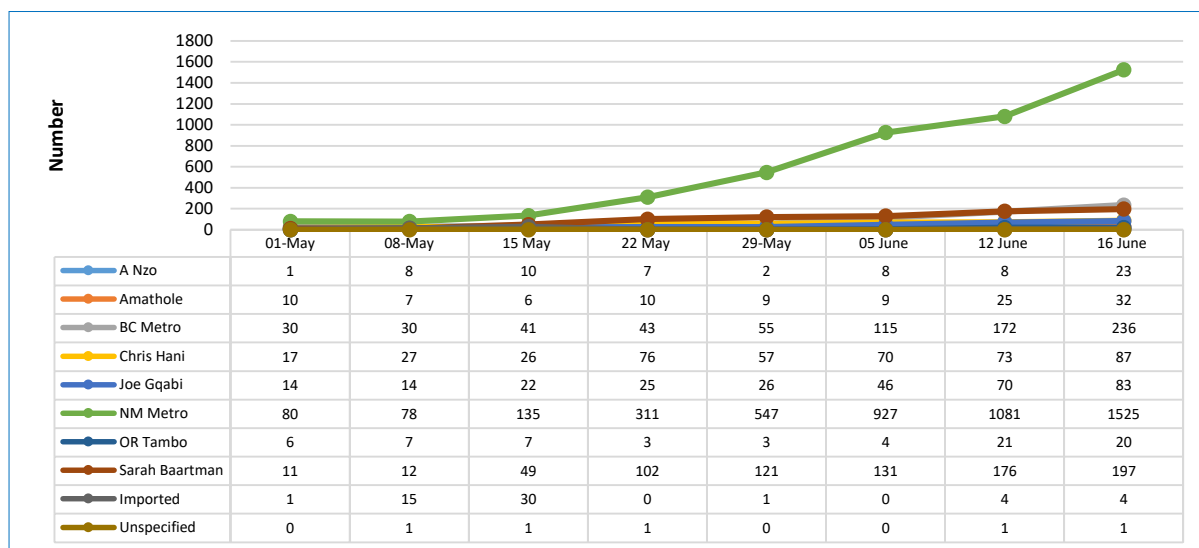


Fig. 9. Number of weekly Active SARS-Cov-2 cases by district, as of 16th June 2021

There was a rapid increase in the number of active cases in NM Metro, followed by Sarah Baartman, BC Metro, Chris Hani, and Joe Gqabi. More than two-thirds of the active cases were from NM Metro, followed by Sarah Baartman. Both BC Metro and Joe Gqabi appear to be having a significant increase in the number of new cases.

5.2. Active SARS-Cov-2 cases and the cumulative positivity rate

District	Population Estimates	Number of Tests	SARS-Cov-2 Cases (ALL)	Active SARS-Cov-2 Cases	SARS-Cov-2 per 100,000 (Active)	Cumulative Positivity Rate
Alfred Nzo	827826	34 215	8092	23	2,8	23,7
Amathole	798067	84 412	19462	32	4,0	23,1
BC Metro	798798	166 178	39536	236	29,5	23,8
Chris Hani	733743	75 816	19953	87	11,9	26,3
Joe Gqabi	343075	31 084	7869	83	24,2	25,3
NM Metro	1210803	243 770	59323	1525	125,9	24,3
OR Tambo	1520922	99 923	22539	20	1,3	22,6
S Baartman	480223	108 901	22430	197	41,0	20,6
Imported		0	683	4	0,0	0,0
Unspecified		171 129	1127	1	0,0	0,7
E.Cape	6713457	1 015 428	201014	2208	32,9	19,8

In the past 24 hours, the incidence of SARS-Cov-2 was 26.5 cases per 100,000 populations. Four (4) districts reported more than 20 cases per 100,000, i.e. BC Metro, Joe Gqabi, NM Metro and Sarah Baartman. Chris Hani has reverted from the response to a control phase. Alfred Nzo, Amathole and OR Tambo reported less than 5 cases per 100,000 populations. Both NM Metro and Sarah Baartman are hotspots because they have more than 20 cases per 100,000 populations for more than 14 days.

5.3. Incidence of SARS-Cov-2 cases

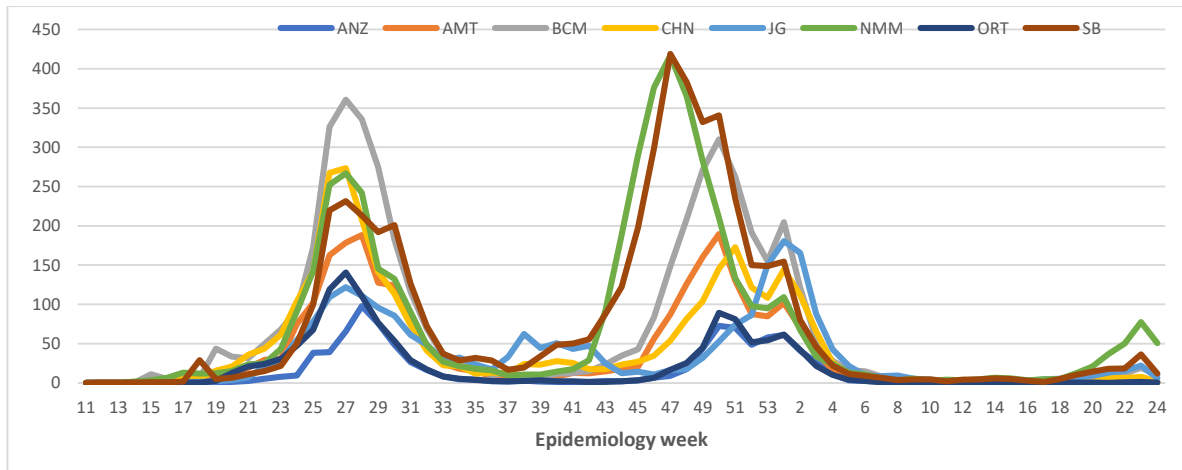


Fig. 10. Incidence of SARS-Cov-2 cases by epidemiological week, as of 16th June 2021

After the second wave, the NM Metro and Sarah Baartman have shown an increase in the incidence of SARS-Cov-2 cases. This was followed by BC Metro and Joe Gqabi. A rapid increase in incidence occurred from week 19 and continue to increase until week 23.

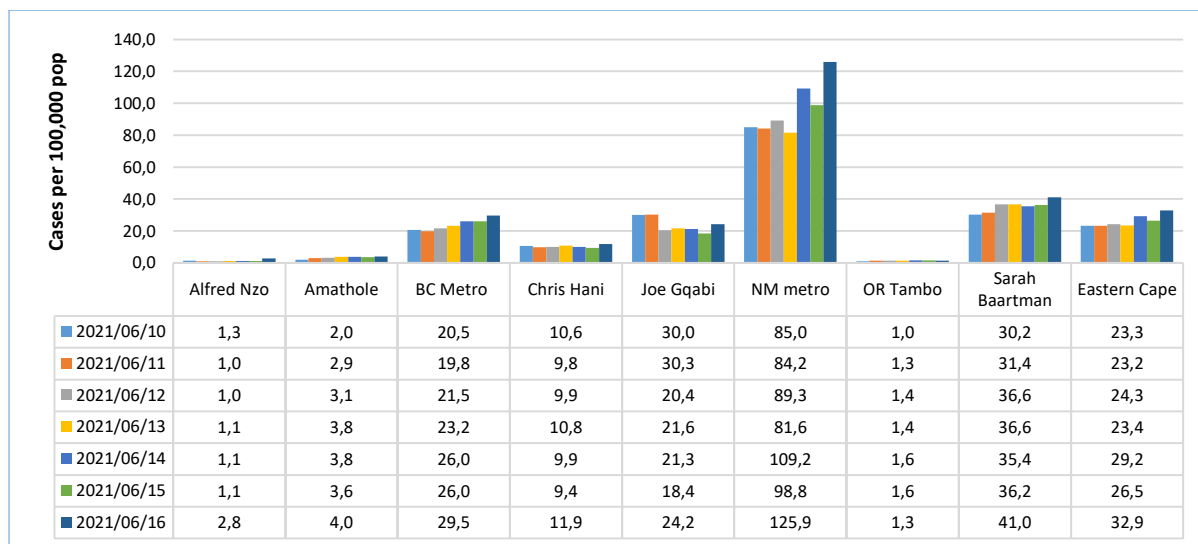


Fig. 11. Active SARS-Cov-2 cases (per 100,000 pop) by district, as of 16th June 2021

In the past 7 days, the incidence has increased by 40.8%, i.e., from 23.3 cases to 32.9 cases per 100,000 populations. Nearly all the districts appear to be showing an increase in the number of cases per 100,000 population. However, 3 districts have less than 5 cases per 100,000 populations, i.e., Alfred Nzo, Amathole, and OR Tambo. Three (3) reported more than 20 cases per 100,000 populations, i.e., BC Metro, NM Metro and Sarah Baartman.

5.4. Recovery Rate (%)

The provincial recovery rate remained above 90% over the past 2 months. However, it has shown a decrease during the same period.

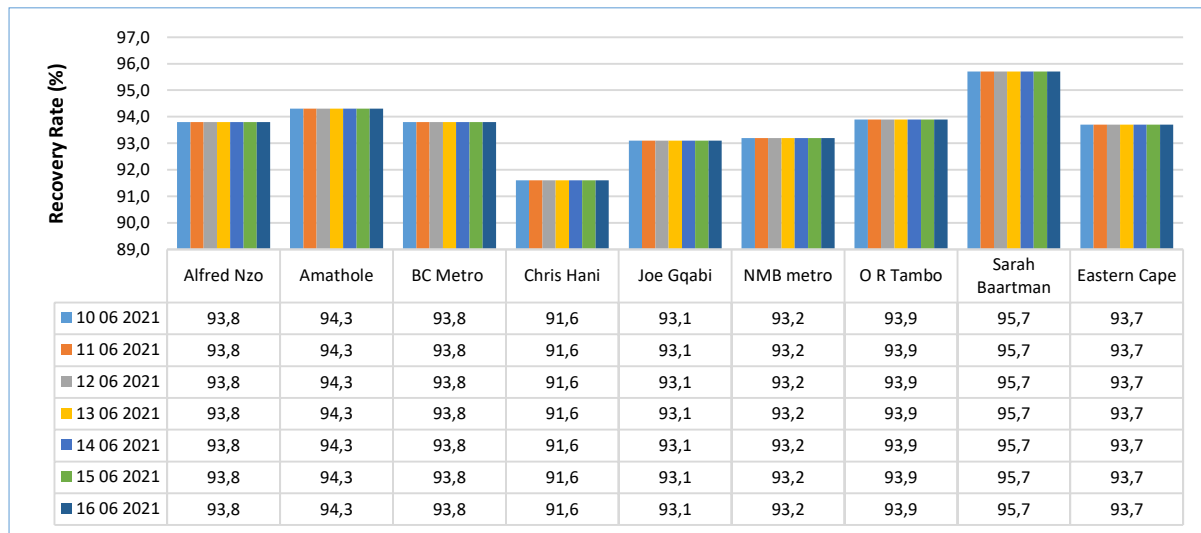


Fig. 12. SARS-Cov-2 Recovery Rate (%) by districts, as of 16th June 2021 (N=187,089)

As the number of new and active cases increases, the recovery rate also decreases. The recovery rate has remained unchanged for the past 7 days.

5.5. Mapping of active cases, recoveries, and deaths

The map shows the distribution of SARS-Cov-2 active cases, recoveries, and deaths.

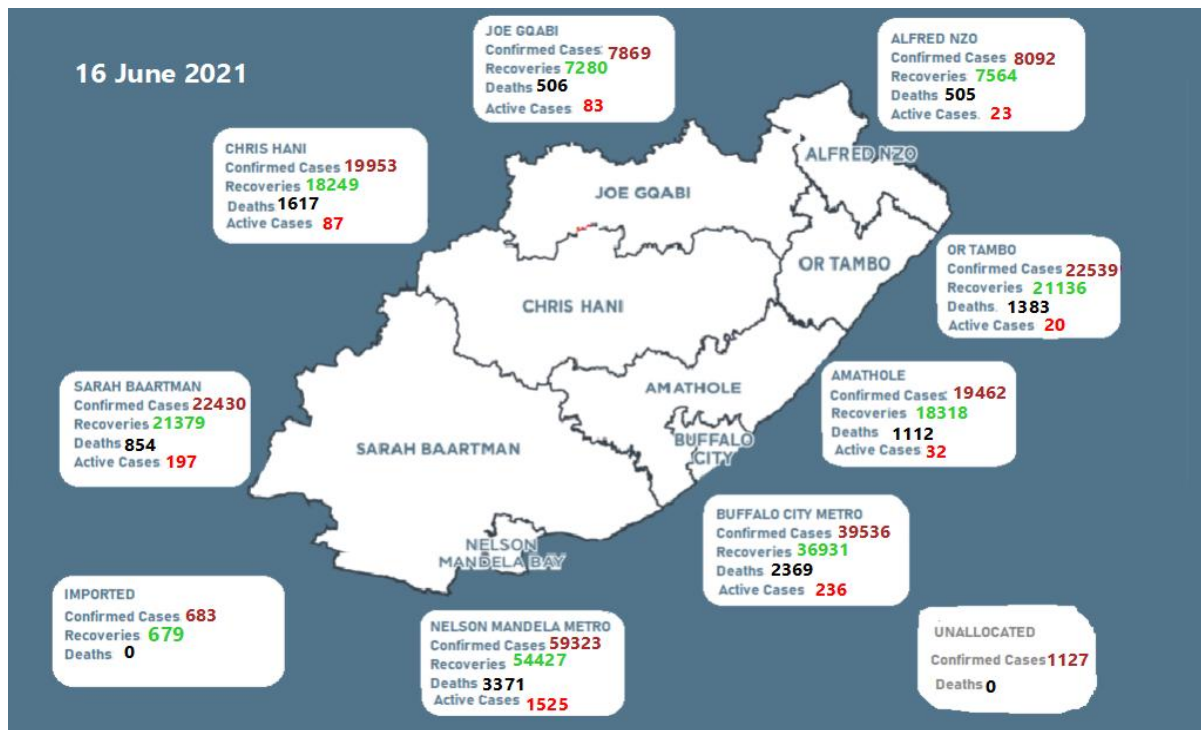


Fig. 13. The number of Covid-19 cases, recoveries, and deaths, as of 16th June 2021

6. SARS-COV-2 CASES AND 7-DAY MOVING AVERAGE

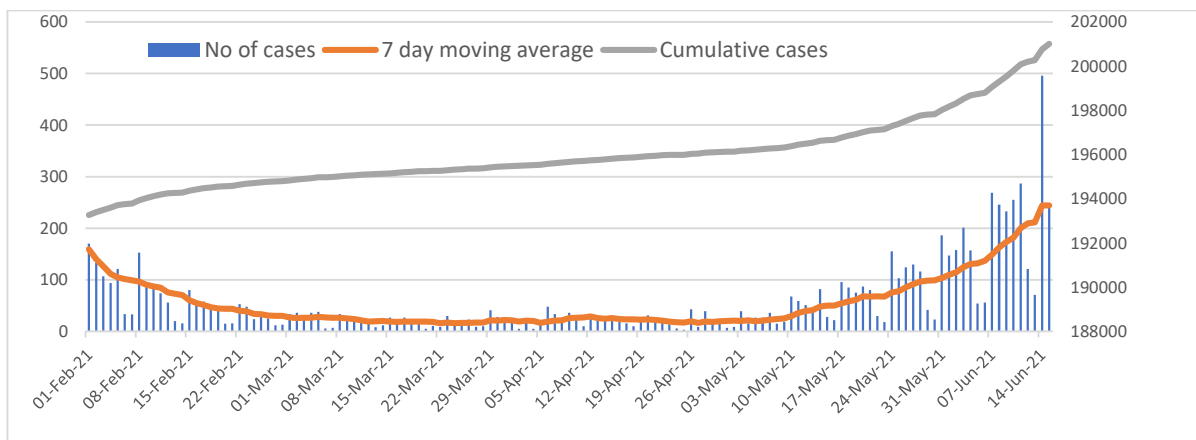


Fig. 14. The 7-day moving average for Covid-19 cases by date of collection, as of 16th June 2021

After a long period of low transmission rates, there was a rapid increase in the number of new cases until to date.

7. SARS-Cov-2 RELATED MORTALITY

7.1. SARS-Cov-2 related cases and deaths

The table below provides the number of cases, deaths, and mortality rate by month.

Month	Cases	Deaths	Percent (%)	Case Fatality Rate (%)	Mortality Rate (per 100,000)
Mar-20	13	1	0,0	7,7	0,0
Apr-20	638	35	0,3	5,5	0,5
May-20	3282	285	2,4	8,7	4,2
Jun-20	23793	1036	8,8	4,4	15,4
Jul-20	50291	2035	17,4	4,0	30,3
Aug-20	8295	668	5,7	8,1	10,0
Sep-20	2992	213	1,8	7,1	3,2
Oct-20	8626	287	2,4	3,3	4,3
Nov-20	34232	1710	14,6	5,0	25,5
Dec-20	42757	2777	23,7	6,5	41,4
Jan-21	18168	1918	16,4	10,6	28,6
Feb-21	1705	312	2,7	18,3	4,6
Mar-21	701	107	0,9	15,3	1,6
Apr-21	625	56	0,5	9,0	0,8
May-21	1898	82	0,7	4,3	1,2
Jun-21	2998	50	0,4	1,7	0,7
Unknown	0	145	1,2	0,0	2,2
Total	201014	11717	100,0	5,8	174,5

Twenty-four percent (23.7%) of the deaths occurred in December; 16.4% in January; 2.7% in February; 0.9% in March; 0.5% in April; 0.7% in May, and 0.4% in June. The Case Fatality Rate was 6.5% in December, 10.6% in January, 18.3% in February, 15.3% in March, 9% in April, 4.3% in May and 1.6% in June.

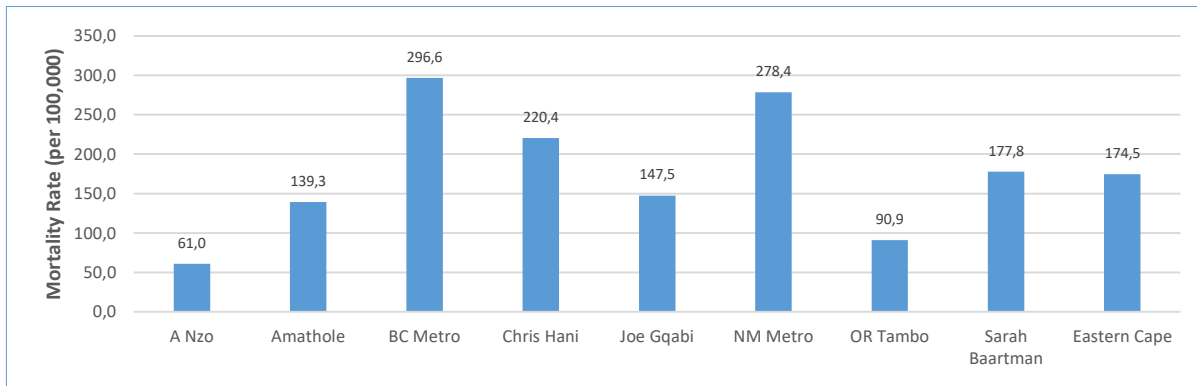


Fig. 15. SARS-Cov-2 related mortality per 100,000 by district, as of 16th June 2021

The provincial mortality rate was 174.5 deaths per 100,000 populations. BC Metro reported the highest mortality rate at 296.6 per 100,000 followed by NM Metro (278.4 per 100,000); Chris Hani (220.4 per 100,000) and Sarah Baartman (177.8 per 100,000).

7.2. Number of reported SARS-Cov-2 related deaths

The figure below depicts the daily and the cumulative number of SARS-Cov-2 related deaths which occurred in the province from the beginning of the pandemic.

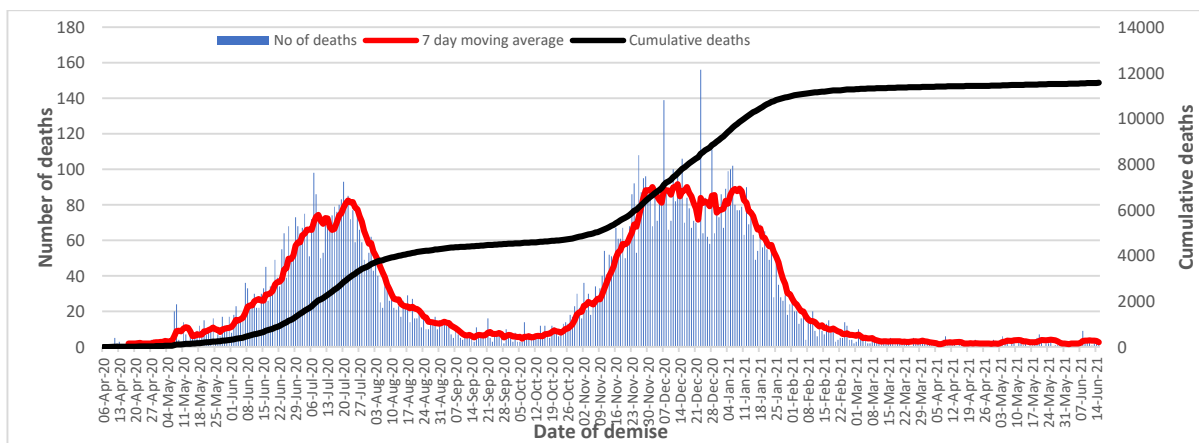


Fig. 16. Daily and cum. SARS-Cov-2 related deaths by date of demise, as of 15th June 2021

The second wave appears to have been severe compared to the first wave, i.e., there were more cases and deaths compared to the first wave. And the duration of the second wave was longer than the first wave. The number of deaths appear to be gradually increasing, especially in June with the deaths. There is a need to continue to monitor the deaths and ensure that there is effective case management. However, with the increase in the number of cases, there is a need to strengthen the reporting of the deaths including post-mortem tests.

7.5. Case Fatality Rate by district

Chris Hani reported 8.1% of the SARS-Cov-2 deaths, followed by Joe Gqabi (6.5%), Alfred Nzo (6.2%), OR Tambo (6.1%), BC Metro (6%), NM Metro (5.8%), Amathole (5.7%) and the lowest being Sarah Baartman (3.8%).

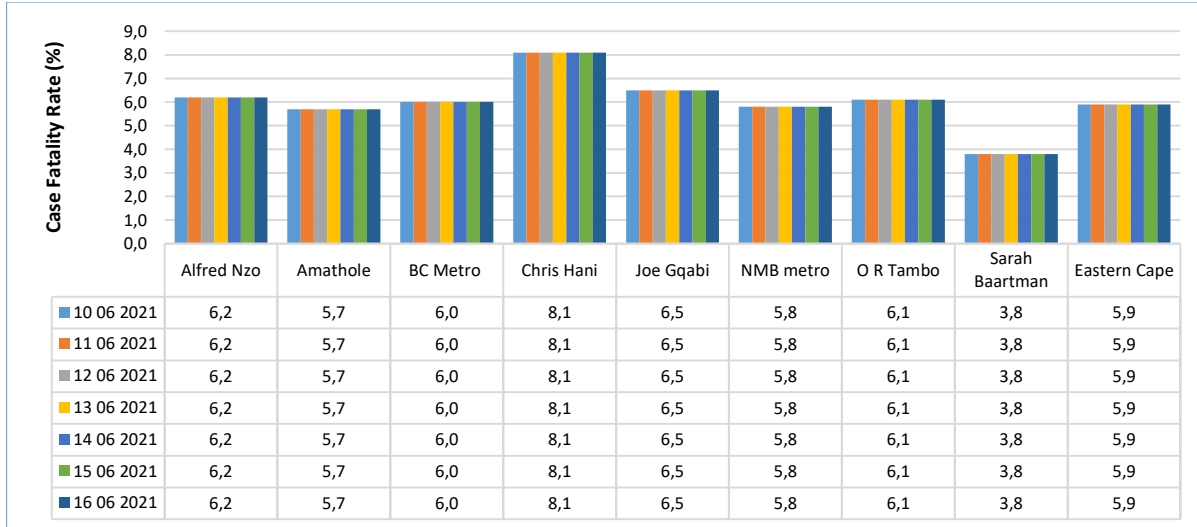


Fig. 17. SARS-Cov-2 Case Fatality Rate (%) by district, as of 16th June 2021 (N=11,717)

The case fatality rate in the province has not changed in the past 7 days, including all the districts. The case fatality rate may increase during June as the number of cases increases.

7.4. Case Fatality Rate by age group

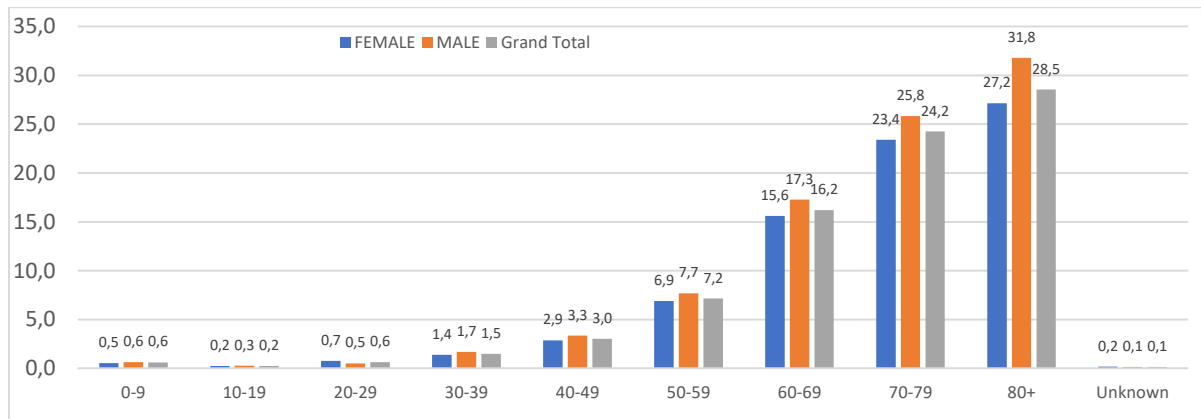


Fig. 18. SARS-Cov-2 related Case Fatality Rate (%) by age group, as of 16th June 2021

The case fatality rate increases with increasing age. The younger population reported a low case fatality rate compared to the older population that had an increased case fatality rate. The male population had a higher case fatality rate compared to the female population.

7.5. Excess versus reported deaths

Data is from the Medical Research Council (as of the 05th June) and ECDOH (09th June).

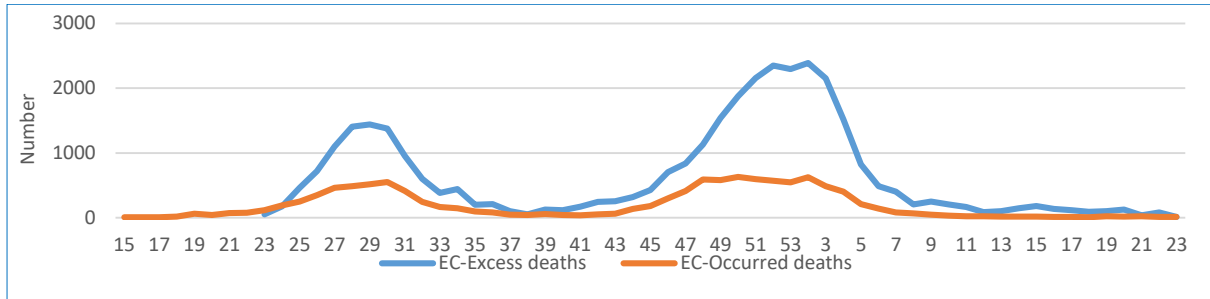


Fig. 19. Excess & reported Covid-19 deaths by week, as of 10th June 2021 (ECDOH, MRC¹)

The number of excess deaths from the MRC was greater than the number of deaths as reported by the Department. The differences in the number of deaths during the period of low transmission appear to be lower compared to the period of high transmission. The gap between the number of reported deaths related to SARS-Cov-2 appears to be narrower in BC Metro and NM Metro compared to the provincial figures. Like the provincial figures, there were notable gaps during the peak periods in the first and second waves.

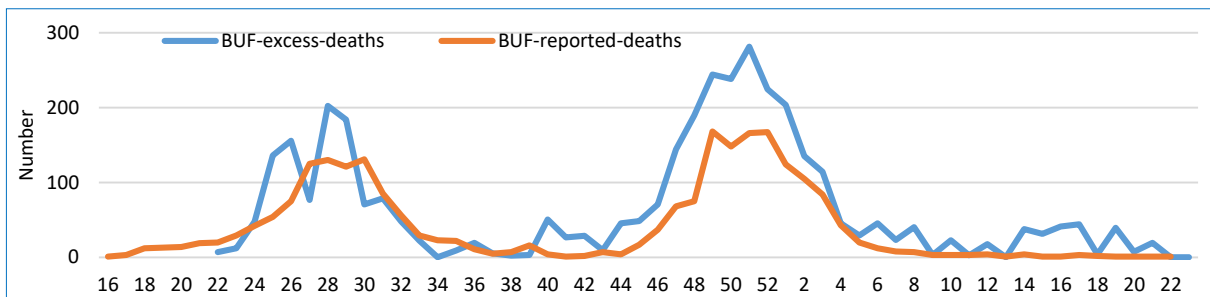


Fig. 20. Reported SARS-Cov-2 vs Excess deaths by week in BC Metro, as of the 10 June 2021

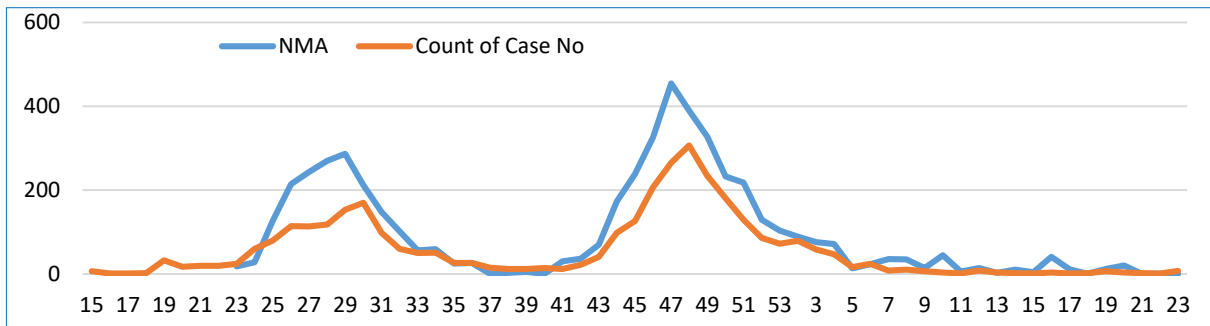


Fig. 21. Reported SARS-Cov-2 vs Excess deaths by week in NM Metro, as of the 10 June 2021

Figures 20 and 21 shows that the gap between the number of excess deaths in BC Metro and NM Metro appears to be narrower, which is contrary to the provincial picture.

¹ Medical Research Council (MRC) data was updated on the 05th June 2021

7.6. Post-mortem tests (PMTs) and results

In the past 48 hours, the number of PMTs has increased to 3,034. The number of positive cases has increased in the past 48 hours, i.e. 840.

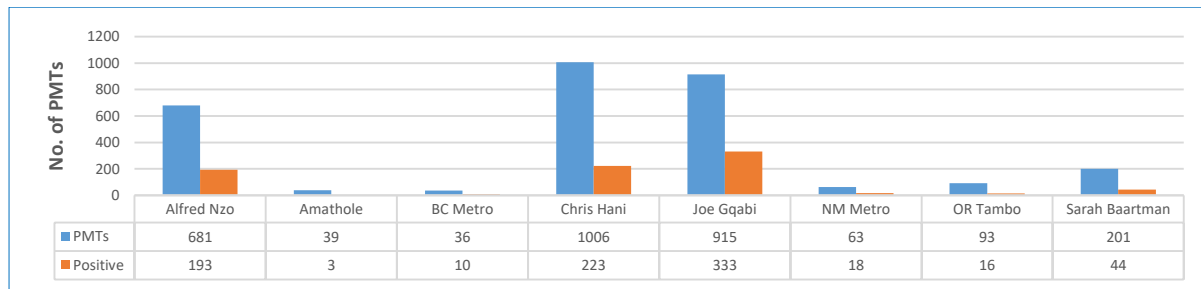


Fig. 22. Number of Post-Mortem Tests & Positive Cases by district, as of 15th June 2021

Of all the PMTs, 2,602 (85.8%) were from Alfred Nzo, Chris Hani, and Joe Gqabi. Similarly, 749 (89.2%) of the 840 confirmed cases were from the 3 districts.

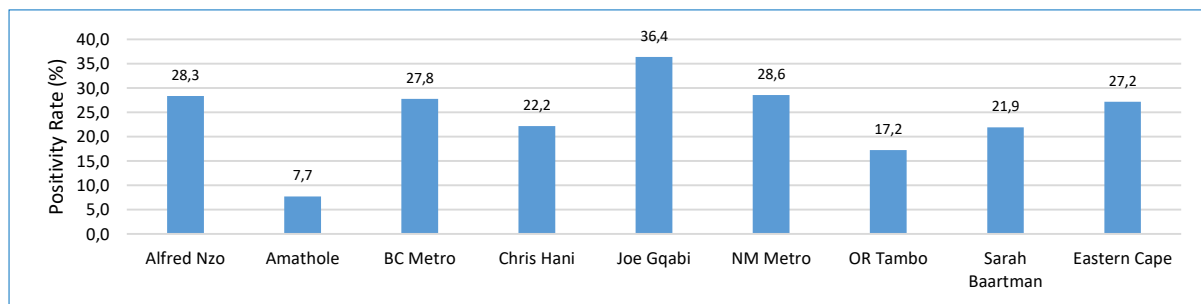


Fig. 23. Post-mortem SARS-Cov-2 positivity rate by district, as of 15th June 2021

Twenty-seven percent (27.2%) of the PMTs tested positive. Joe Gqabi reported the highest positivity rate, followed by NM Metro, Alfred Nzo, BC Metro and Chris Hani.

	23-29 May		30 May-05 June		06-12 June		13-14 June		23 May - 14 June	
	PMTs	Positive	PMTs	Positive	PMTs	Positive	PMTs	Positive	PMTs	Positive
Alfred Nzo	23	1	20	1	28	1	9	4	80	7
Amathole	3		3		4				10	0
BC Metro	0		0		1				1	0
Chris Hani	28	3	41	1	36	2	3		108	6
Joe Gqabi	35	1	22	2	23	4	6		86	7
NM Metro			1		2				3	0
OR Tambo	8		3		9		1		21	0
Sarah Baartman	2		3		7				12	0
Eastern Cape	99	5	93	4	110	7	19	4	321	20

In the 20 days, 321 PMTs were conducted, and 20 tested positive for SARS-Cov-2. Alfred Nzo, Chris Hani, and Joe accounted for 274 PMTs (85.4%). All the confirmed cases were from Alfred Nzo, Chris Hani, and Joe Gqabi districts. There was an improvement in the number of PMTs in OR Tambo.

7.6. Deaths by health facilities

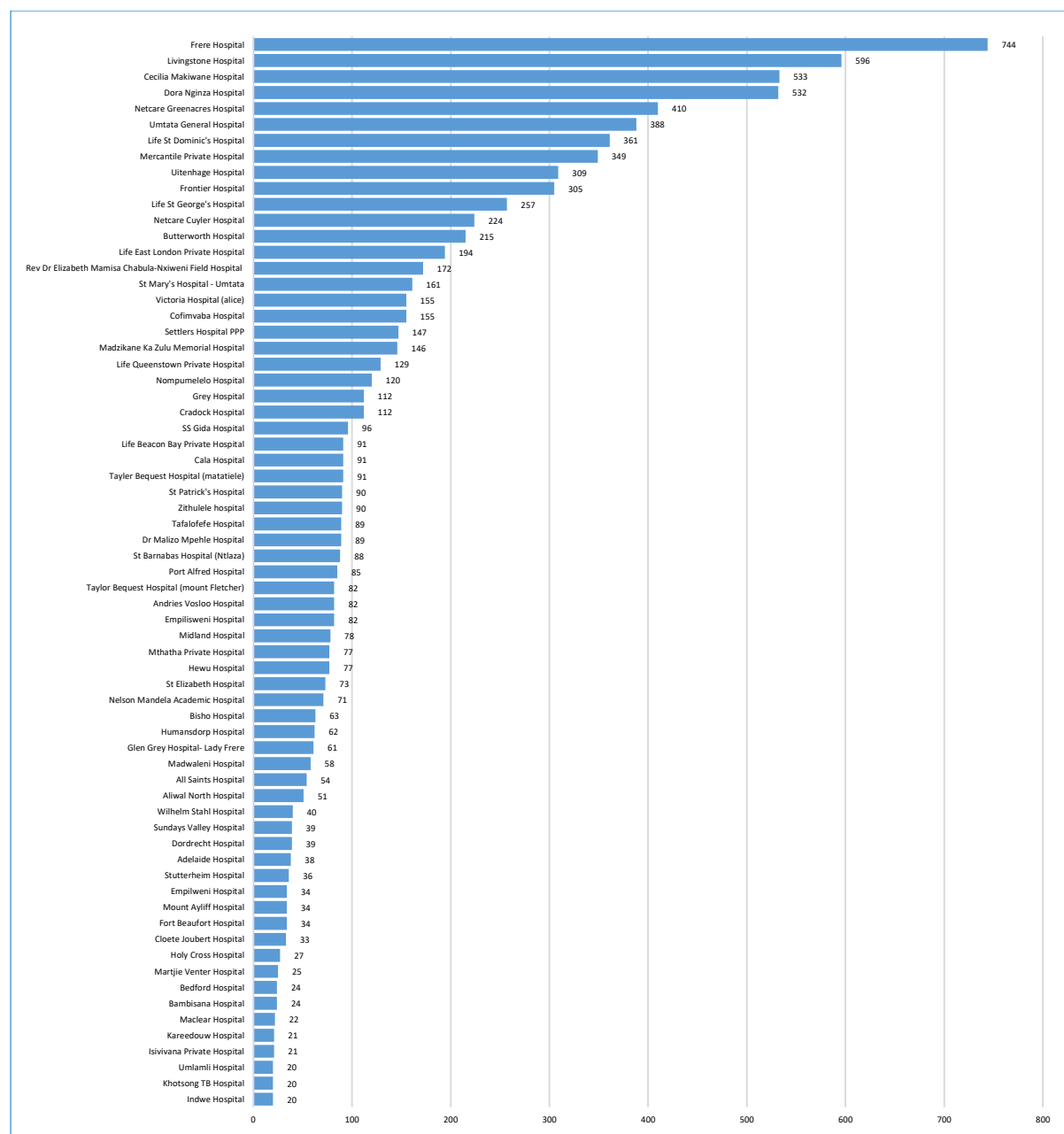


Fig. 24. Number of SARS-Cov-2 related deaths by the facility, as of 11th June 2021

Fifty-five percent (55%) of the deaths occurred in 13 hospitals, i.e., 8 public and 5 private sectors. The public hospitals include Frere, Livingstone, CMH, Dora Nginza, Frontier, Mthatha, Uitenhage, and Butterworth hospitals. And the private hospitals include Netcare Greenacres, Life St. Dominics, Mercantile, Life St Georges, and Netcare Cyler hospitals. These hospitals reported more than 200 deaths from the beginning of the pandemic. Only hospitals with a minimum of 20 deaths are included in the above-mentioned figure.

8. HEALTHCARE WORKERS

8.1. Cases and deaths among healthcare workers (HCWs)

The number of HCWs who tested SARS-Cov-2 positive was 12,077 and 307 persons demised.

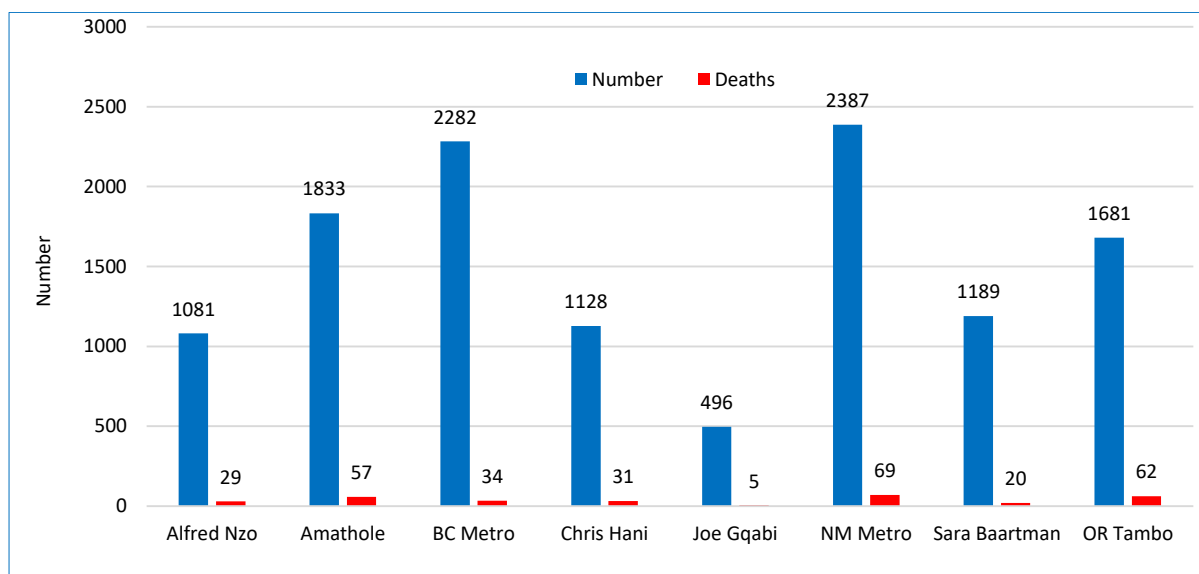


Fig. 25. SARS-Cov-2 positive Healthcare Workers, as of 09th June 2021 (N = 12,077)

The number of healthcare workers who tested positive for SARS-Cov-2 in Nelson Mandela Metro was 2,387 (69 deaths), Buffalo City Metro 2,282 (34 deaths), Amathole 1,833 (57 deaths), OR Tambo 1,681 (62 deaths), Sarah Baartman 1189 (20 deaths), Chris Hani 1,128 (31 deaths) and Alfred Nzo 1,081 cases (29 deaths).

8.2. SARS-Cov-2 Cases by job category

The table below provides the number of selected healthcare professionals employed by the State and SARS-Cov-2 cases by job categories, and the positivity rate of that job category.

	Population	Cases	Positivity Rate (%)
Admin	12434	816	6,6
Allied Professionals	3041	235	7,7
Doctors & Clinical Assoc	2369	460	19,4
Nurses	20650	5028	24,3
Emergency Medical Services	2498	298	11,9

The positivity rate among the nurses was 24,3%, followed by doctors and clinical associates (19,4%), allied professionals (7,7%), EMS (11,9%), and admin personnel (6,6%). The positivity rates among healthcare workers negatively affect patient safety, staff morale and confidence, and the capacity of the State to provide quality health services to the population.

8.3. Admissions of healthcare workers

The cumulative number of admissions was 1,098 health workers. From January to date, 113 healthcare workers were hospitalized, i.e. 72 in January, 16 on February, 5 in March, 7 in April, and 11 in May and 4 in June. The last admission was on the 06th of June 2021 in NM Metro.

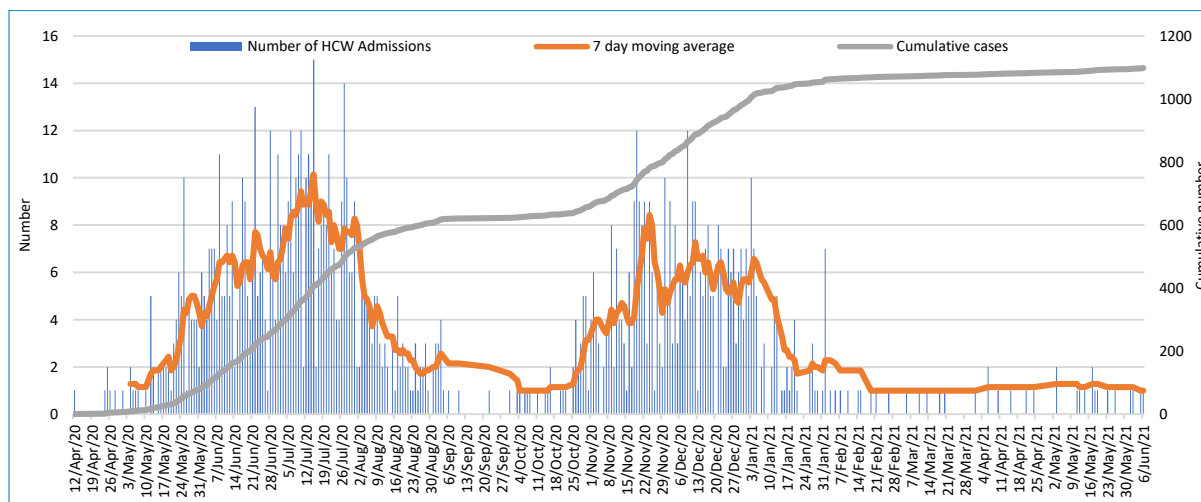


Fig. 26. No. of SARS-Cov-2 related admissions of healthcare workers, as of 11^h June 2021

This graph appears to be mimicking the epi-curve and admissions of the general population including during the first and the second waves. There was less hospitalization of HCWs from February to date compared to January.

8.4. Case Fatality Rate (%) among HCWs

The figure below provides the cases fatality rate among all healthcare workers.

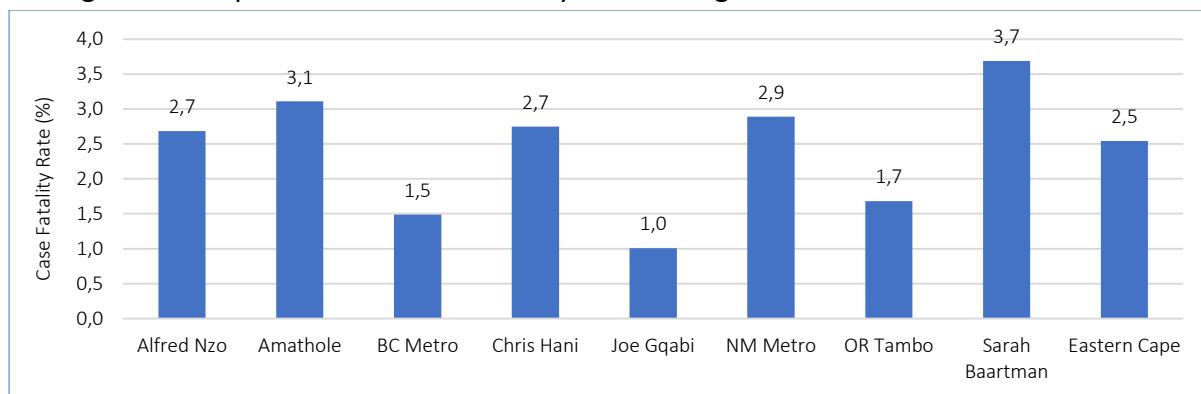


Fig. 27. SARS-Cov-2 Case Fatality Rate (%) among HCWs, as of 09th June 2021 (N=307)

The case fatality rate among healthcare workers was 2,5%. More than 1% case fatality was reported in all the districts. Sarah Baartman reported the highest case fatality rate, followed by Amathole, Nelson Mandela Metro, Chris Hani, and Alfred Nzo. The case fatality rate of less than 2% in three districts, i.e., Joe Gqabi, BC Metro and OR Tambo.

9. Hospitalization and outcomes

9.1. Admissions and outcomes

The cumulative number of hospitalizations was 32,173, i.e. 22,337 (69.4%) in public and 9,836 (30.6%) in private. Sixty-five percent (64.8%), i.e. 20,846 of hospitalized patients were discharged alive and 13,494 (64.7%) occurred in public sector. Thirty percent (29.6%) of hospitalized cases, i.e., 9,515 demised and 7,208 (75.8%) occurred in public sector facilities.

Districts	Public	Private	Total	Died	Case Fatality Rate (%)	Discharged to date	Discharged (%)
Alfred Nzo	1684	108	1792	422	23,5	1101	61,4
Amathole	2365	0	2365	890	37,6	1427	60,3
BC Metro	4260	3202	7462	2100	28,1	5294	70,9
Chris Hani	2586	753	3339	1163	34,8	2081	62,3
Joe Gqabi	733	0	733	330	45,0	367	50,1
NM Metro	6712	4705	11417	2903	25,4	7458	65,3
O R Tambo	2360	904	3264	1136	34,8	2034	62,3
Sarah Baartman	1637	164	1801	571	31,7	1084	60,2
Eastern Cape	22337	9836	32173	9515	29,6	20846	64,8

Joe Gqabi has the highest case fatality rate (45%) among the hospitalized, followed by Amathole (37.6%), Chris Hani (34.8%) and OR Tambo (34.8%). BC Metro discharged more than 70% of the hospitalized and the lowest discharge rate seen in Joe Gqabi (50.1%).

Eastern Cape	Public	Private	Total
Cumulative Admissions	22337	9836	32173
Died	7208	2307	9515
Discharged Alive	13494	7352	20846
Transferred Out	1551	35	1586
Currently Admitted	74	137	211
In ICU	0	35	35
In High Care	1	7	8
In General	73	95	168
On Oxygen	28	8	36
Ventilated	14	8	22

Of the 211 currently admitted, 137 (64.9%) in private and 74 (35.1%) in public sector. About 168 cases (79.6%) were admitted in the General Ward, i.e. 95 in private and 73 in public sector. Thirty-five (35) were in ICU in private sector; 8 cases in High Care (1 in public & 7 in private); 36 cases on oxygen (28 in public & 8 in private) and 22 cases were on ventilation (14 in public and 8 in private sector). Twelve (12) hospitalizations occurred in the past day from Chris Hani (1), Joe Gqabi (1), NM Metro (6) and Sarah Baartman (4).

Districts	Currently admitted	In ICU	Ventilated	Oxygenated	Admitted in Past Day
Alfred Nzo	3	0	1	1	0
Amathole	0	0	0	0	0
BC Metro	24	6	0	5	0
Chris Hani	10	1	0	6	1
Joe Gqabi	5	0	0	2	1
NM Metro	143	28	21	13	6
O R Tambo	5	0	0	3	0
Sarah Baartman	21	0	0	6	4
Eastern Cape	211	35	22	36	12

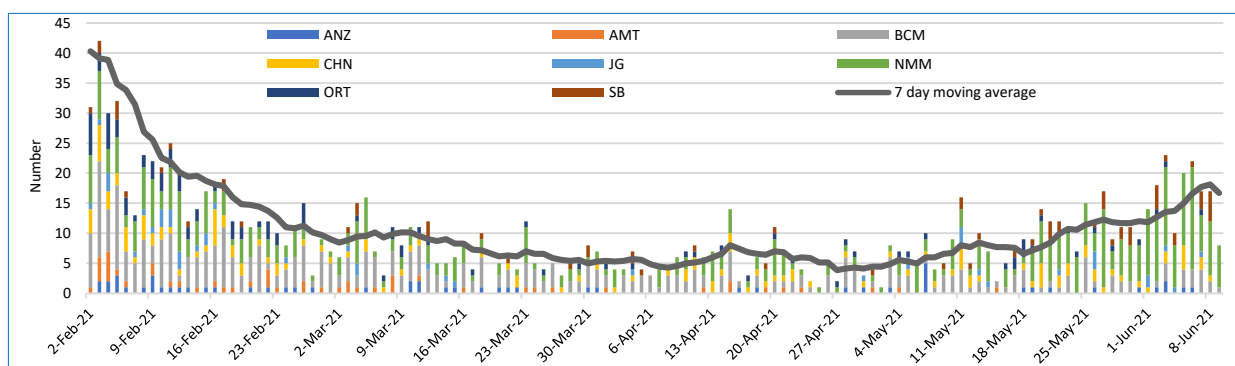


Fig. 28. Average (7 days moving) daily admissions by districts, as of 11th June 2021 (DATCOV)

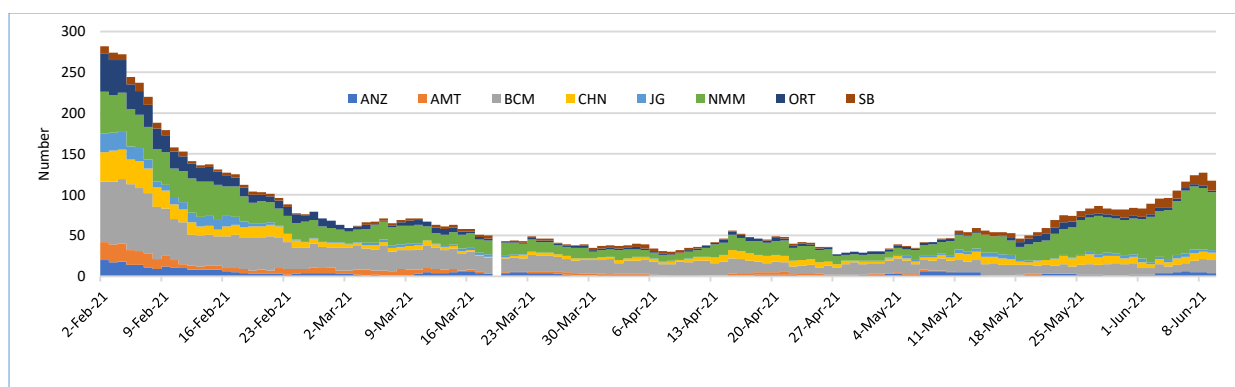


Fig. 29. No. of hospitalizations by date of admission for each district, as of 11th June 2021

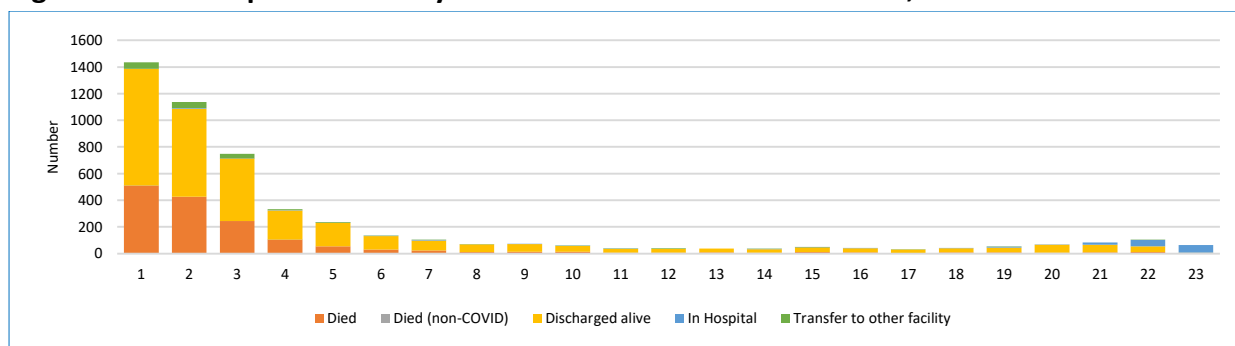


Fig. 30. Hospitalizations & outcomes by admission week, as of 11th June 2021 (DATCOV)

The number of currently hospitalized patients remained low since week 8 of this year but appear to be gradually increasing from week 19.

9.2. Co-morbidities among admitted cases and deaths

The most common co-morbidities among the hospitalized SARS-Cov-2 patients were hypertension (39,6%) and diabetes (26,1%) among hospitalized SARS-Cov-2 cases. Two others were HIV (7,9%), obesity (5,9%) and asthma (3,7%).

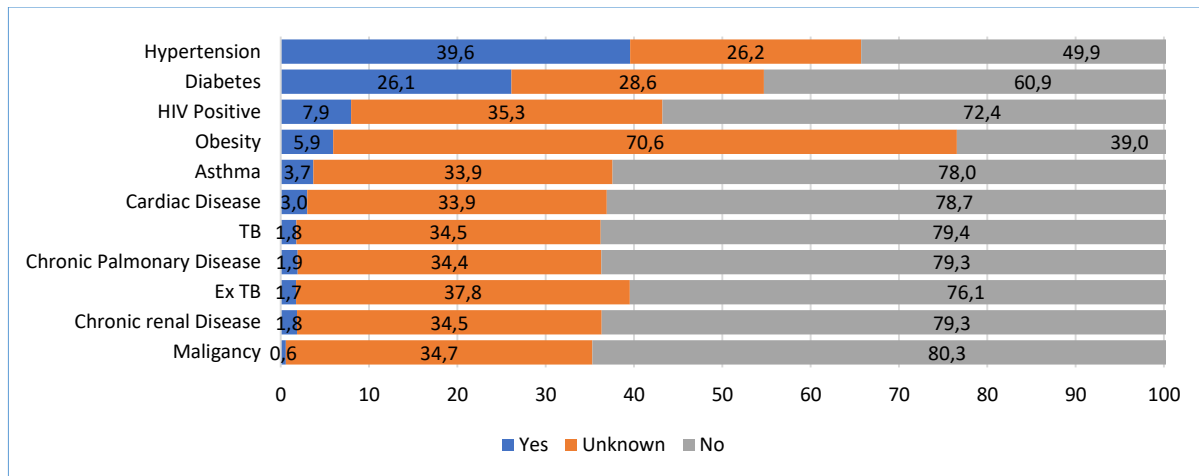


Fig. 31. Co-morbidities among SARS-Cov-2 hospitalizations, as of 11th June 2021 (DATCOV)

A significant percentage of hospitalized patients did not have co-morbidities. This may have resulted in the underestimation of the burden of co-morbidities among hospitalized cases.

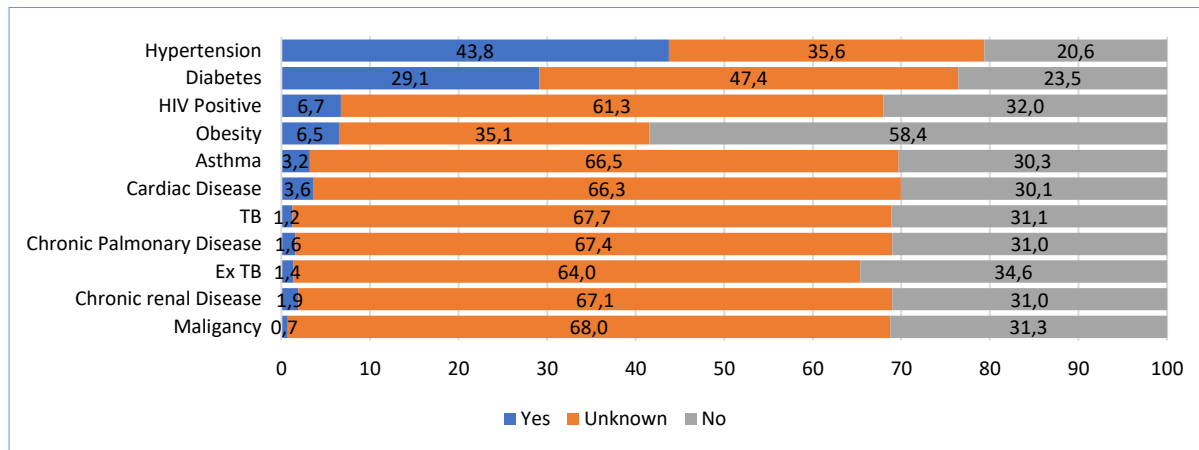


Fig. 32. Co-morbidities among SARS-Cov-2 cases who demised, as of 11th June 2021 (DATCOV)

The most common comorbidities among those cases that demised in the hospital include hypertension (43,8%) and diabetes (29,1%). Other 4 co-morbidities were reported, i.e., HIV (6,7%), obesity (6,5%), cardiac diseases (3,6%), and asthma (3,2%).



3 577 773

No Screened



1 015 428

Total Lab Tests



201 014

Positive Cases



187 089

Recoveries



11 717

Deaths

DISTRICT	TOTAL SCREENED	TOTAL TESTED	TOTAL CASES	RECOVERIES	DEATHS	ACTIVE CASES	AREAS
ALFRED NZO	694 706	34 215	8 092	7 564	505	23	Badibanise,Bhakubha,Bizana,Brooksnek,Cedarville,Chithwa,Dutyini,Emanxiweni,Ezinteteni,Kokstad,Lucingweni,Maluti, Mandileni , Matatiele,Mount Ayliff, Mount Frere , Ndlantana, Ngcingo , Ntabakhulu, Sugar Bush, Tabankulu
AMATHOLE	658 126	84 412	19 462	18 318	1112	32	Adelaide, Alice, Bolotwa, Butterworth, Cathcart, Centane, Cuba, Debe Nek, Dikana, Elliotdale, Ethafeni, Frankfort, Fort Beaufort, Ibika, Idutywa, Keiskammahoe, Willowale, Lower Mhangcolo,Debe Nek, Mgababa, Nyaniso, Peddie
BUFFALO CITY METRO	210 367	166 178	39 536	36 931	2369	236	Abbottsford, Amalinda , Beacon Bay, Bisho, Braelynn, Buffalo Flats, Dimbaza, Duncan Village, East London, Ginsberg, Gonubie, Greenfields, Haven Hills, King William's Town, Mamata, Mdantsane, Masingata, Mantlaneni, Nahoon, Ndevana, Needs Camp, Parkside, Selbourne, Sunnyridge, Sunset Bay,Tshatshu, Vincent, West Bank, Zweitsha
CHRIS HANI	515 346	75 816	19 953	18 249	1617	87	Bankies, Dordrecht, Dukathole, Ekunene, Ezibeleni, Kwanobuhle, Mcwangete, Madeira Park, New Rest, Ngcobo, Nkonyama, Popcorn Valley, Gebe, Oqodala, Queenstown, Sigadleni, Vaalbank, Sada, Middleburg, Thornhill, Ndzamela, Mlungisi,Westbourne,Ntlonze, Maya Village,Ekuphumuleni, TopTown, Vleipoort, Zola
JOE GOABI	87 855	31 084	7 869	7 280	506	83	Aliwal North, Barkley East, Bhodi, Land Camp, Ugie, Inglewood, Maclear, Solomzi, Sunduza,Robbenn,Venterstad
NELSON MANDELA METRO	856 883	243 770	59 323	54 427	3371	1 525	Algoa Park, Betheldorp, Bloemendal, Bluewater Bay, Booyens Park, Cotswold, Cuyler, Daleview, Despatch, Fernglen Port, Gelvandale, Govan Mbeki, Heath Park, Helenvale, Jacksonville, Joe Slovo, Kabega Park, Kamma Park, Kamvelihle, Khayaletu, Kleinskool, Kwa Dwesi, Kwa-Magxaki, Kwanobuhle, Kwanoxolo, KwaZakhele, Lovemore Heights, Missionvale, Motherwell, Mount Croix, New Brighton, Newton Park ,North End, Port Elizabeth, Rowallan Park, Salt Lake, Sardinia Bay, Schauderville, Sherwood, Silvertown, Soweto-On-Sea, Steve Tshwete, Summerstrand, Tamboville, Uitenhage, Veeplaas, Walmer, West End, Westering, Zwide, Lorraine, Hillside, Daleview
OR TAMBO	265 613	99 923	22 539	21 136	1383	20	Gomora, Lutatweni, Machibi, Majola, Mandilini ,New Payne Ngqeleni, Ntsimbini, Old Payne, Libode, Lusikisiki, Mqanduli, Tombo, Marhewini, Mpikwana,Bhongweni,Cibeni, Flagstaff,Magcakeni,Ngangelizwe, Ngqanda,Tyebelana, Pollar Park, Tabase Mission, Slovo Park, Southernwood, Waterfall Park, Zandukwana,Zimbane, Ziphuzana
SARAH BAARTMAN	288 877	108 901	22 430	21 379	854	197	Aberdeen, Alexandria, Graaf-Reinet, Grahamstown, Jeffrey's Bay, Jourbertina, Humansdorp, Parson, St. Francis Bay, Kirkwood, Lotusville, Bergendal, Bratenfel, Joza, Santaville, Somerset East, Thornhill, Willomore
IMPORTED*	-	0	683	679	0	4	Bloemfontein, Ceres, Cape Town, Dunoon, Fishoek, George, Green Point, Gugulethu, Hout Bay, Langa, Khayelitsha, Knysna, Phillipi, Stellenbosch, Strand
PENDING	-	171 129	1127	1126	0	1	
GRAND TOTALS	3 577 773	1 015 428	201 014	187 089	11 717	2 208	

ACKNOWLEDGEMENTS

- The epidemiological and surveillance functions continue because of the strong partnership between the following stakeholders.
- WHO supported epidemiologists, biostatisticians, and technical support.
- The National Institute for Communicable Diseases (NICD) provided the province with epidemiologists and technical support.
- The data analyst from TB/HIV Care has supported data management, mapping of the cases and other functions in the department.
- Right to Care assists in mapping the cases in different areas in the province.
- Centre for Disease Control (Atlanta-Pretoria) provided the Department with an epidemiologist and a statistician during the first wave of the pandemic.
- The Department of Health, both the National and Provincial Department of Health re-purposed the employees to focus on the control and prevention of the pandemic.
- Laboratories; National Health Laboratory Services, Pathcare and Ampath for prompt and regular reporting of SARS-Cov-2 newly diagnosed cases.

PROVINCE						
Indicator	Description	week 21	week 22	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	89	120	34,8		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	12,19	19,50	60,0		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	118	141	19,5		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,13	0,19	46,2		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		8,2			Positivity rate rising above 20% in ageographical area constitute an alert
Testing rate	Number of tests/ 100000 population		177			There should be 5 tests for each positive case per 100000 population

ALFRED NZO						
Indicator	Description	week 21	week 22	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	1	2	100,0		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	0,24	1,00	316,7		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	3	4	33,3		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,12	0,12	0,0		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		1,2			Positivity rate rising above 20% in a geographical area constitute an alert
Testing rate	Number of tests/ 100000 population		81			There should be 5 tests for each positive case per 100000 population

AMATHOLE						
Indicator	Description	week 21	week 22	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	0	2	infinity		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	1,13	1,10	-2,7		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	0	0	0,0		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,00	0,00	0,0		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		3,4			Positivity rate rising above 20% in ageographical area constitute an alert
Testing rate	Number of tests/ 100000 population		29			There should be 5 tests for each positive case per 100000 population

BUFFALO CITY METRO

Indicator	Description	week 21	week 22	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	6	13	116,7		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	6,89	14,40	109,0		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	23	23	0,0		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,13	0,00	-100,0		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		11,2			Positivity rate rising above 20% in ageographical area constitute an alert
Testing rate	Number of tests/ 100000 population		100			There should be 5 tests for each positive case per 100000 population

CHRIS HANI						
Indicator	Description	week 21	week 22	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	7	8	14		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	7,77	9,50	22		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	14	8	-43		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,55	0,27	-51		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		5,3			Positivity rate rising above 20% in ageographical area constitute an alert
Testing rate	Number of tests/ 100000 population		105			There should be 5 tests for each positive case per 100000 population

JOE GQABI						
Indicator	Description	week 21	week 22	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	5	8	60		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	7,58	13,40	77		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	3	5	67		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,21	0,58	176		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		13,5			Positivity rate rising above 20% in ageographical area constitute an alert
Testing rate	Number of tests/ 100000 population		114			There should be 5 tests for each positive case per 100000 population

NELSON MANDELA BAY						
Indicator	Description	week 21	week 22	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	59	81	37,3		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	45,18	76,60	69,5		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	65	91	40,0		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,08	0,41	412,5		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		16,6			Positivity rate rising above 20% in ageographical area constitute an alert
Testing rate	Number of tests/ 100000 population		294			There should be 5 tests for each positive case per 100000 population

OR TAMBO						
Indicator	Description	week 21	week 22	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	0	3	infinity		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	0,20	0,30	50,0		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	6	2	-66,7		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,00	0,13	infinity		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		0,8			Positivity rate rising above 20% in ageographical area constitute an alert
Testing rate	Number of tests/ 100000 population		71			There should be 5 tests for each positive case per 100000 population

SARAH BAARTMAN						
Indicator	Description	week 21	week 22	% change	Phase/Threshold	Target
New cases (seven day moving Average)	COVID-19 cases (percentage change from previous week)	11	14	27,3		< 10% increase from previous week
Active cases incidence	Active COVID-19 cases per 100 000 population	25,20	27,30	8,3		< 10% increase from previous week
Current COVID-19 hospital admissions	Current COVID-19 hospital admissions (Public and Private)	4	8	100,0		< 10% increase from previous week
COVID-19 mortality	COVID-19 deaths in the last 7 days	0,21	0,21	0,0		< 10% increase from previous week
All cause mortality						
Positivity Rate	Percentage of positive tests of all tests conducted within a geographical area		10,8			Positivity rate rising above 20% in ageographical area constitute an alert
Testing rate	Number of tests/ 100000 population		178			There should be 5 tests for each positive case per 100000 population